Durocrete Engineering Services Pvt. Ltd.

19/1,Hingane Khurd,Vitthalwadi,Sinhgad Road,Pune-411051.
Tel No: +91-9881735302,020-24345170,24348027
Email: mailto:info@durocrete.com
An ISO/IEC 17025:2005 NABL Accredited Laboratory
Website : www.durocrete.com

DUROCRETE
Test with the Best

Office Copy

Mortar Mix Design for M-40 Grade (Interim Report)

Customer Name	: URC Construction Private Limited	**Branch Code**	**: 02**
Office Address	: 94/95,Indira Shankar Nagari,Paud Road,Kothrud Pune-411038.	**Material Code**	**: MF**
		Sample Ref No.	**: 52989/1-1**
Site Name	: Civil And E&M Works For Pune Metro Rail.	**Record No.**	**: 1764/1-1**
Mix Design Requirement	: Mix design for M-40 grade of Mortar for Cover Blocks.	Bill No.	: June-2019
Special Considerations (If Any)	: Flowable Mortar for Cover Block	Mat.Recd Date	: 18/Jan/2019
Contact Details	: Mr. Mahesh Naik – 9481816955 **(Route : R5)**	Date of Issue	: 20/June/2019

Proposed Mix Proportions :

Material	Description	Per m³	Per 50 Kg Cement bag
Cement	Birla Shakti OPC 53 Grade IS 269 (W=44,M=11,Y=18)	900.0 kg	50.000 kg
Water	-	279.0 lit	15.500 lit
Admixture	BASF Master Polyheed 8352	5.400 lit	300 ml
Fine Aggregate 1	Crushed Sand, Source- Crystal Aggregate, Lonikand	1171 kg	65.050 kg

Water Binder Ratio = 0.31

Binder Content : 900 kg/m³

Cement = 900 kg/m³

Observations of Laboratory Trials

Plastic Density = 2355 kg/m³

Flow Archived	350 mm
Retention time	**Initial**

Average 3 days compressive strength = 26.23 N/mm²
Average 7 days compressive strength = 37..54 N/mm²

Remarks :

1) This is interim report based on 7 days strength. Final report will be given after 28 days strength is achieved
2) Given mix proportions will be confirmed on achieving satisfactory 28 day compressive strength at our laboratory.
3) You are requested to take a site trial and give us a feedback, which will enable us to give you the corrections in the mix, before your actual casting.
4) Corrections for moisture content in sand & aggregate absorption in metal should be made on water / binder ratio (Refer guidelines provided with this report).
5) Any change in source or type of material like cement, plasticizer, fine or coarse aggregate would require re-validation of mix design.
6) The above mix design requires certain control practices on site to ensure results.

Notes :

1) The test reports and results relate to the particular specimen/sample(s) of the material as delivered/received and tested in the laboratory.
2) Any test report shall not be reproduced except in full,without the written permission from Durocrete.
3) Any alteration/change in the originally printed and issued report, would render this report as INVALID

For all technical queries contact (020)24348027.

--End of Report--